

INFORMATION ITEM 2: 2013 CAPITAL PROGRAM

Environment Committee, August 14, 2012



Topics

- Capital Improvement Program (CIP)
6-Year Plan
- Authorized Capital Program
Multi-Year Authorization
- Capital Budget
Annual Appropriation

Capital Program Strategy

- Preserve Infrastructure
(\$5 Billion Asset)
- Meet Commitments
- Prepare for Future

Capital Program Objectives

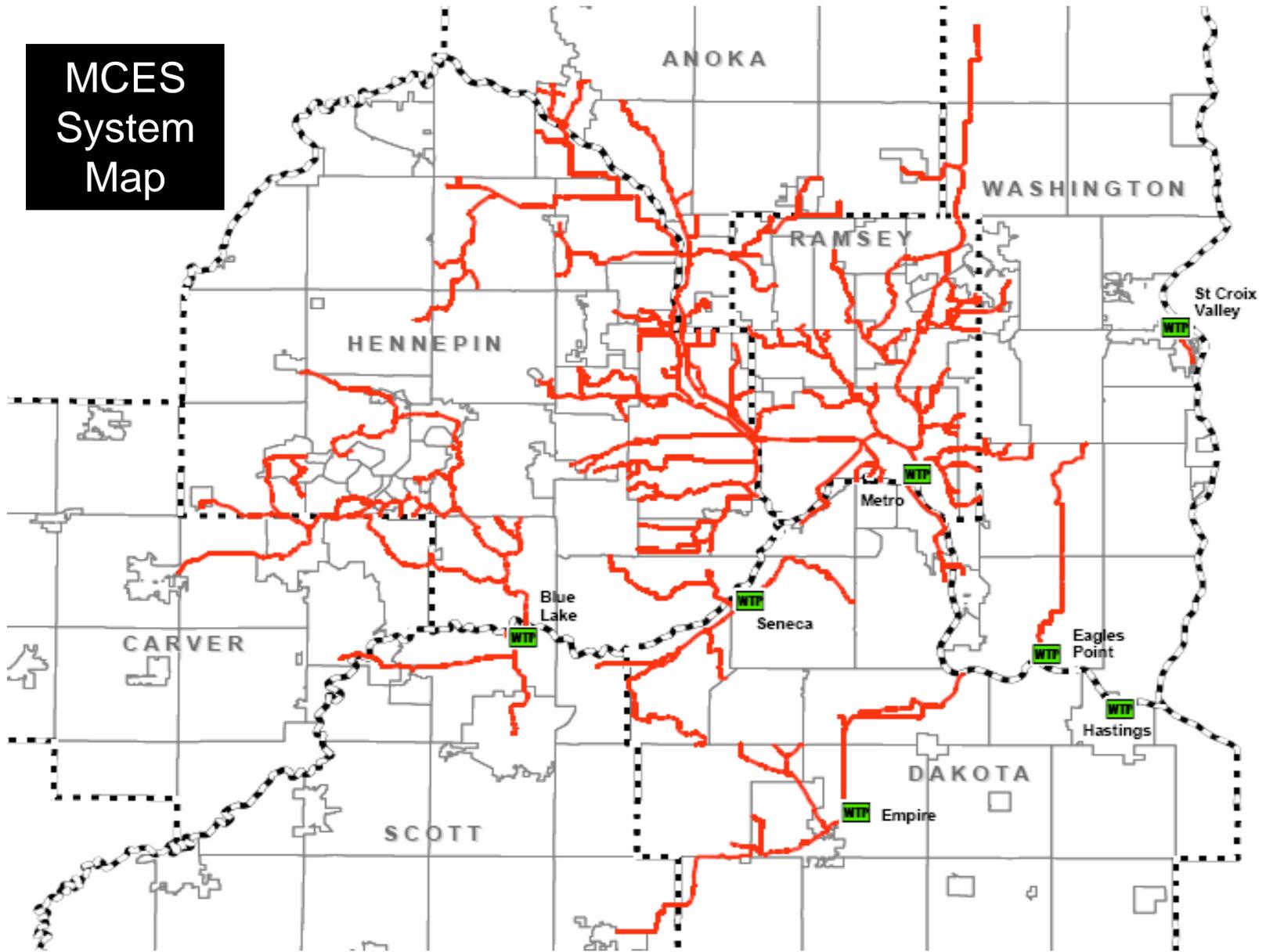
- Rehabilitation (Preserve)
- Growth (Expand)
- Quality (Improve)

Proposed Schedule

<u>Date</u>	<u>Item</u>
Aug 14 th	Capital Program and Budget
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PROPOSED 2013 – 2018 CAPITAL IMPROVEMENT PROGRAM

MCES System Map



Key Projects - Plants

- Empire Plant
 - Solids Processing
- Metro Plant
 - Rehabilitation
 - Solids Processing
- East Bethel Plant
 - Water Reclamation Facility

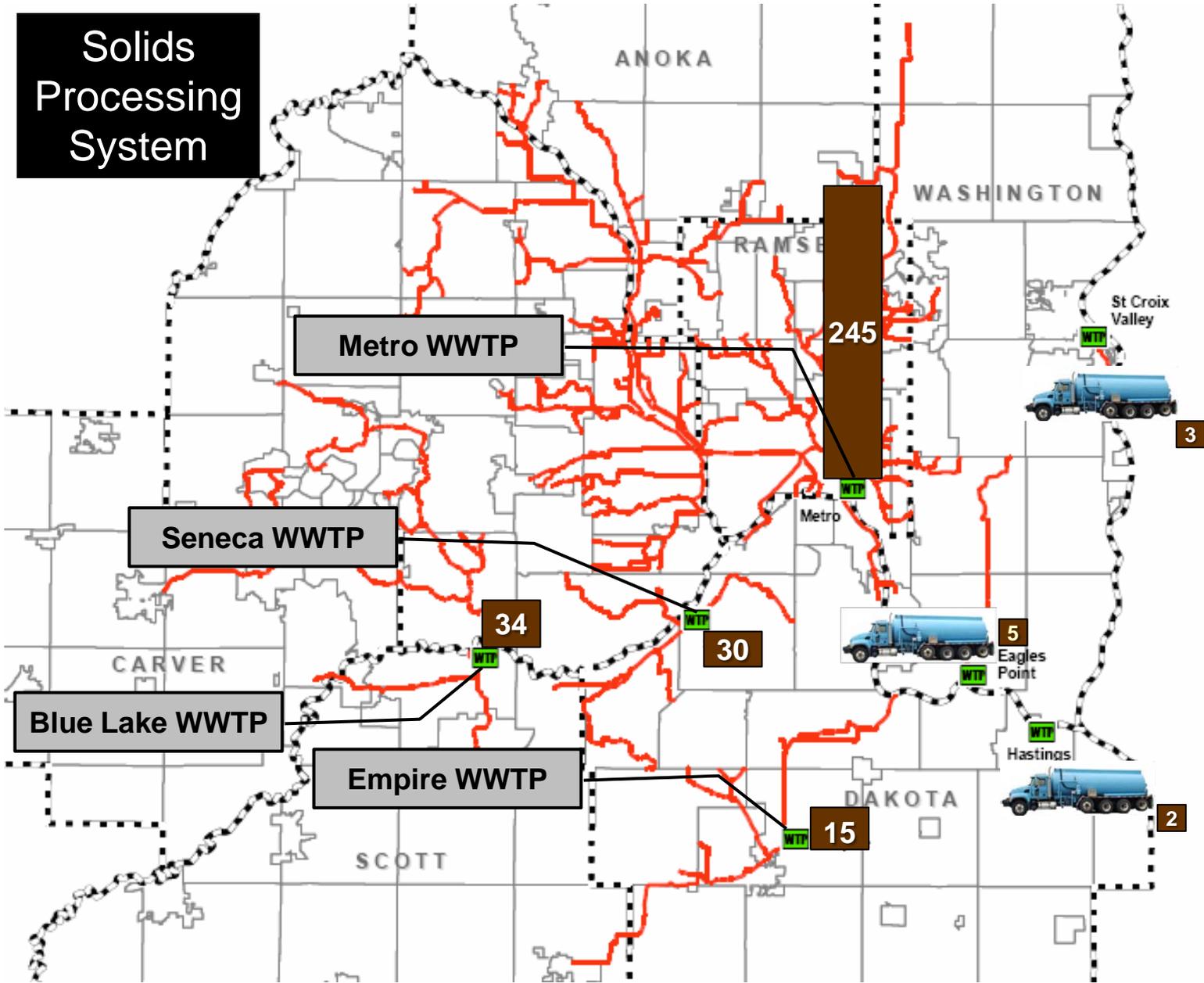


Empire Wastewater Plant

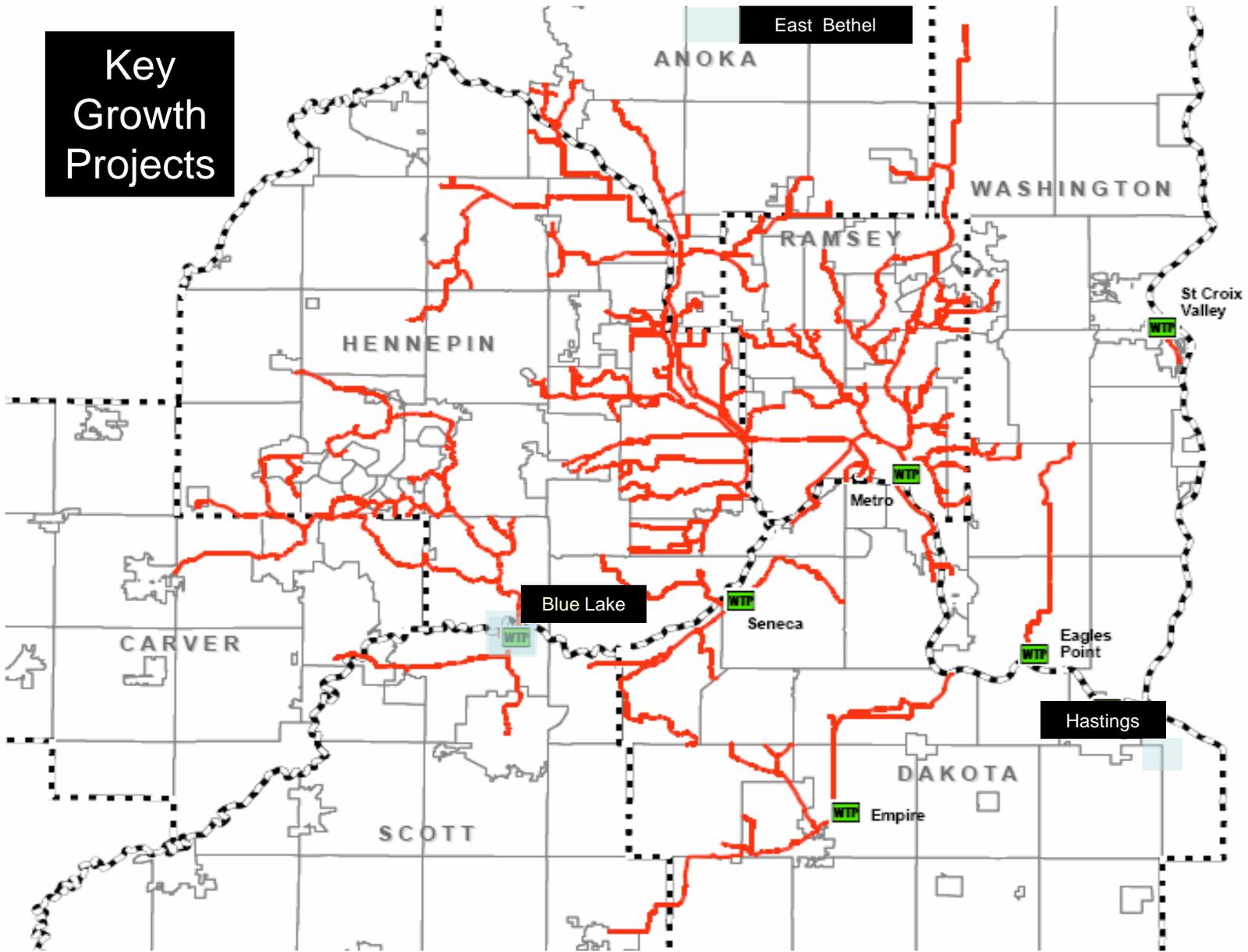




Solids Processing System



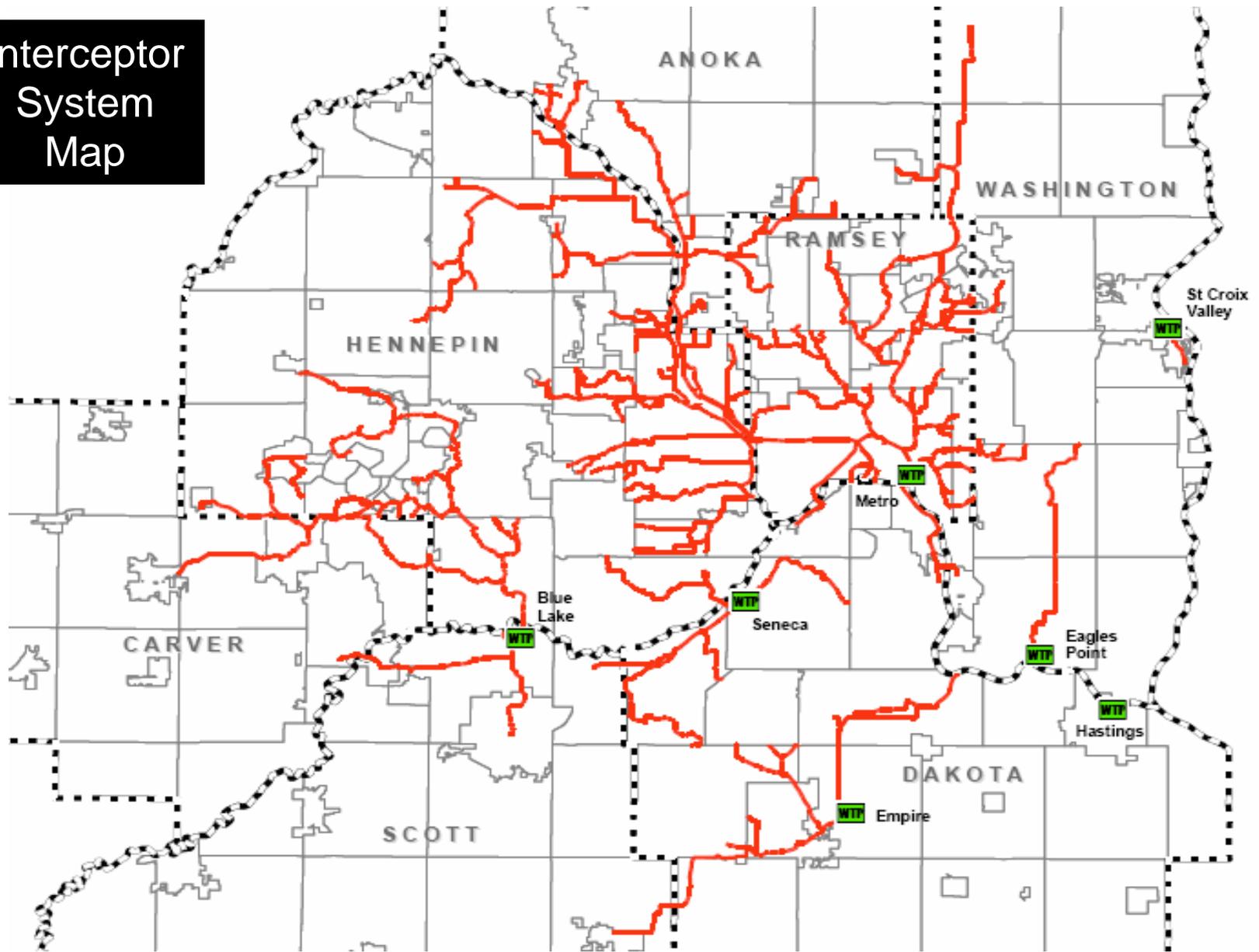
Key Growth Projects



Quality

- Current permit conditions have been met
- CIP excludes capital improvements for potential future permit requirements
- Focus on reliability and energy conservation

Interceptor System Map



Interceptor System Components

- 481 miles of gravity sewer
- 194 flow meter stations
- 127 miles of forcemain
- 63 lift stations
- 22 miles of siphon sewer
- 10 combined sewer overflow regulators

Interceptor System River Crossings

<u>Interceptor System</u>	<u>Year</u>	<u>Type</u>
Chaska-Shakopee	1998	Forcemain
Eden Prairie-Shakopee	1971	Siphon
Bloomington	1996	Siphon
Anoka	1992	Forcemain
Brooklyn Park	1971	Forcemain
Lake Street	1937	Siphon
Mendota Heights	1968	Siphon
Newport	1973	FM/Siphon
St. Paul Riverview	2008	Siphon
South St. Paul	2012	Forcemain



Rehabilitation Priorities

- Pipes Susceptible to Corrosion
- Materials Susceptible to Failure
- Poor Soils

Recently and Soon To-Be-Completed Interceptor Capital Projects



Chaska-Carver*

Chaska-Shakopee Phases 1 and 2

Edina-Richfield*

Golden Valley 1-GV-461

Interceptor 1-WO-500 (Woodbury, Maplewood)

Lift Stations L3, L6, L10 and L56

Maplewood Interceptors 1-MW-411 and 413

Mpls. Interceptors 1-MN-303, 310, and 320

Plymouth Forcemain Phase 1

Savage Interceptor

South St. Paul Forcemain

Victoria Tunnels (Replaces L22 and L23)**

* Growth Project

** Includes Growth

Recently and Soon To-Be-Bid Rehabilitation/Replacement Projects



Brooklyn Park Forcemain

Chaska-Shakopee Phase 3

Excelsior Forcemain

Hopkins Forcemain Contract B

Mahtomedi LS/Forcemain

Mpls. Interceptors 1-MN-311, 312, 313, 314

Mpls. Interceptor 1-MN-330

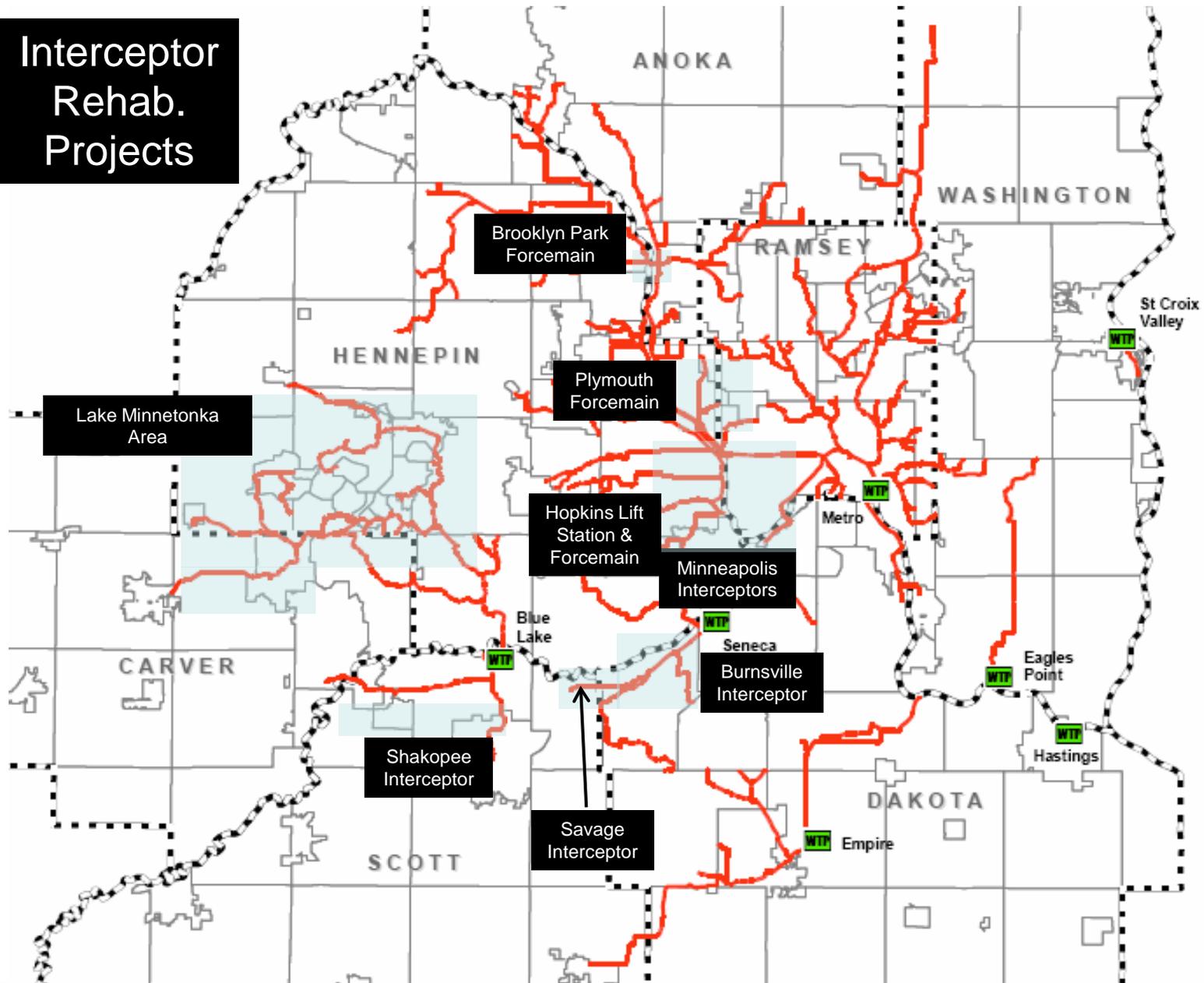
Plymouth Forcemain Phase 2

Victoria 7019-B Rehabilitation

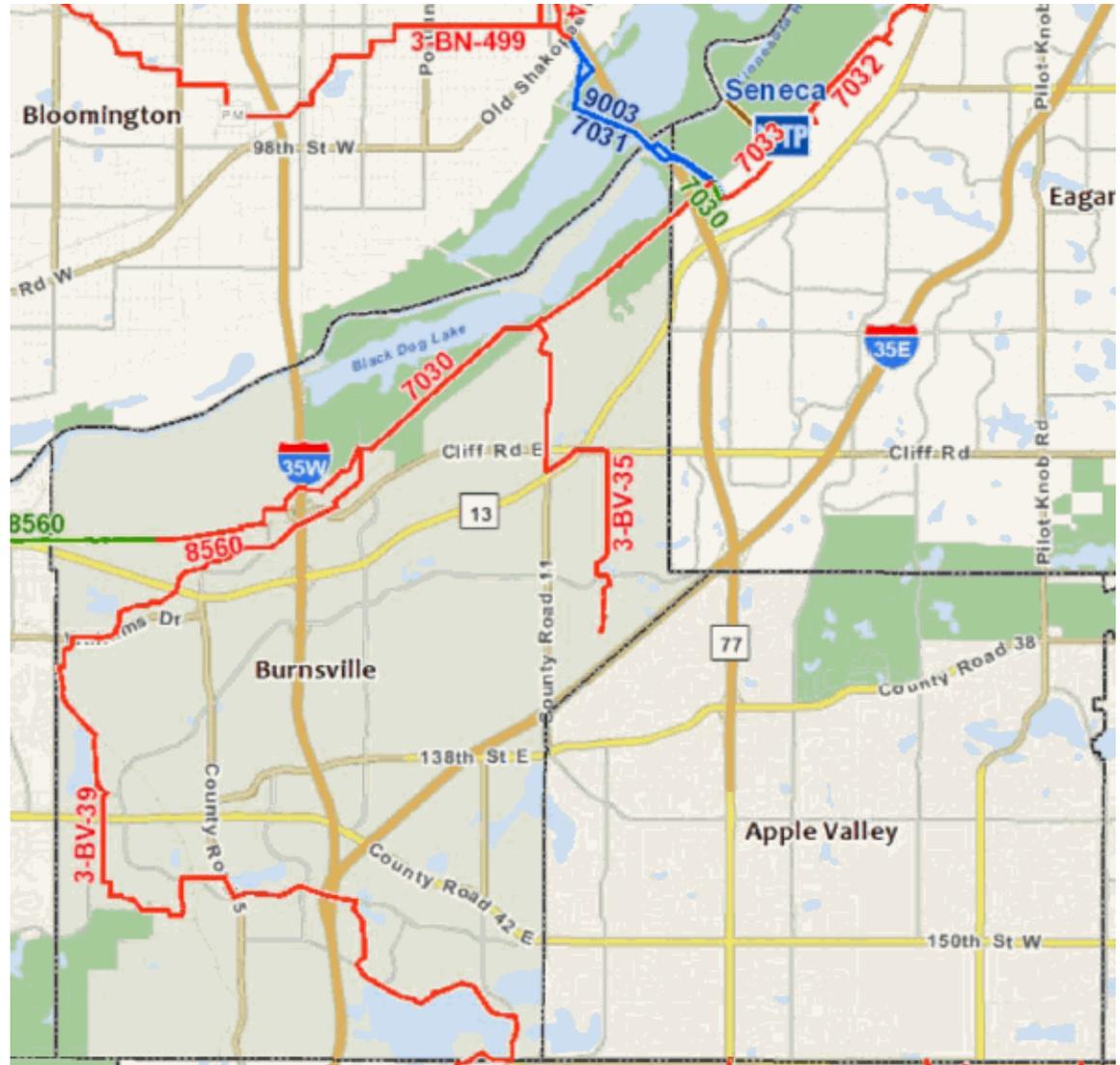
Wayzata Forcemain Phase 2

Wayzata Forcemain Phase 3

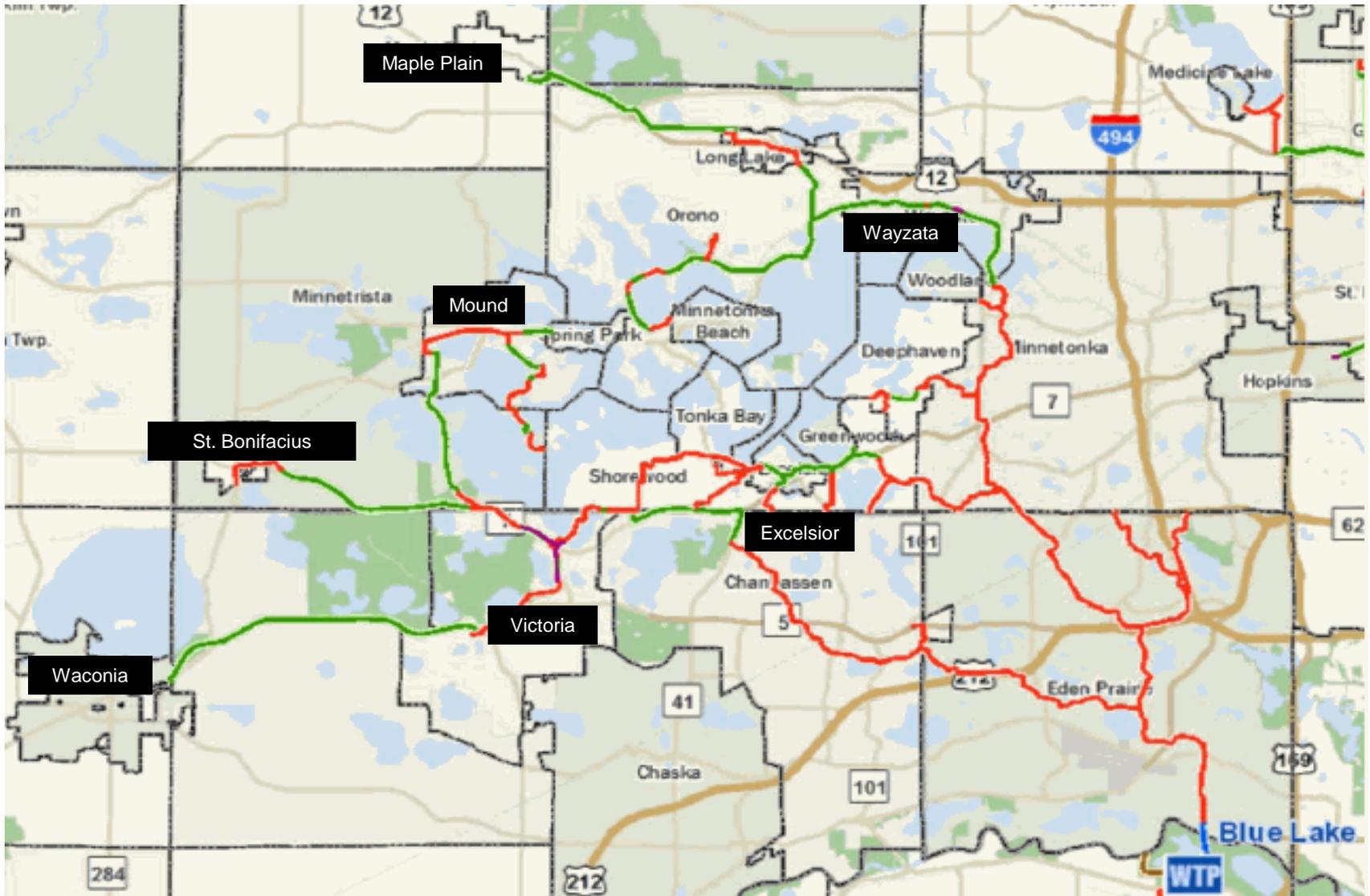
Interceptor Rehab. Projects



Burnsville Interceptor Rehabilitation



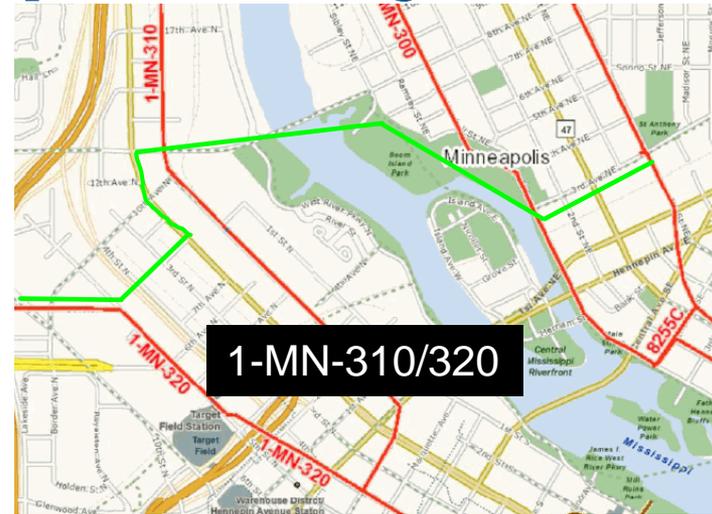
Lake Minnetonka Area Projects



Brooklyn Park LS/FM Rehabilitation



Minneapolis Interceptor Projects



Minneapolis Interceptors Rehabilitation

2011 - 2015	2016 – 2019	2020 – 2030
Phase 1* Corrosion, Materials	1-MN-310/320 Diversion Tunnels** Phase 2*** Corrosion, Regulators	Pipe-in-Pipe Separation Phase 3 1-MN-310/320

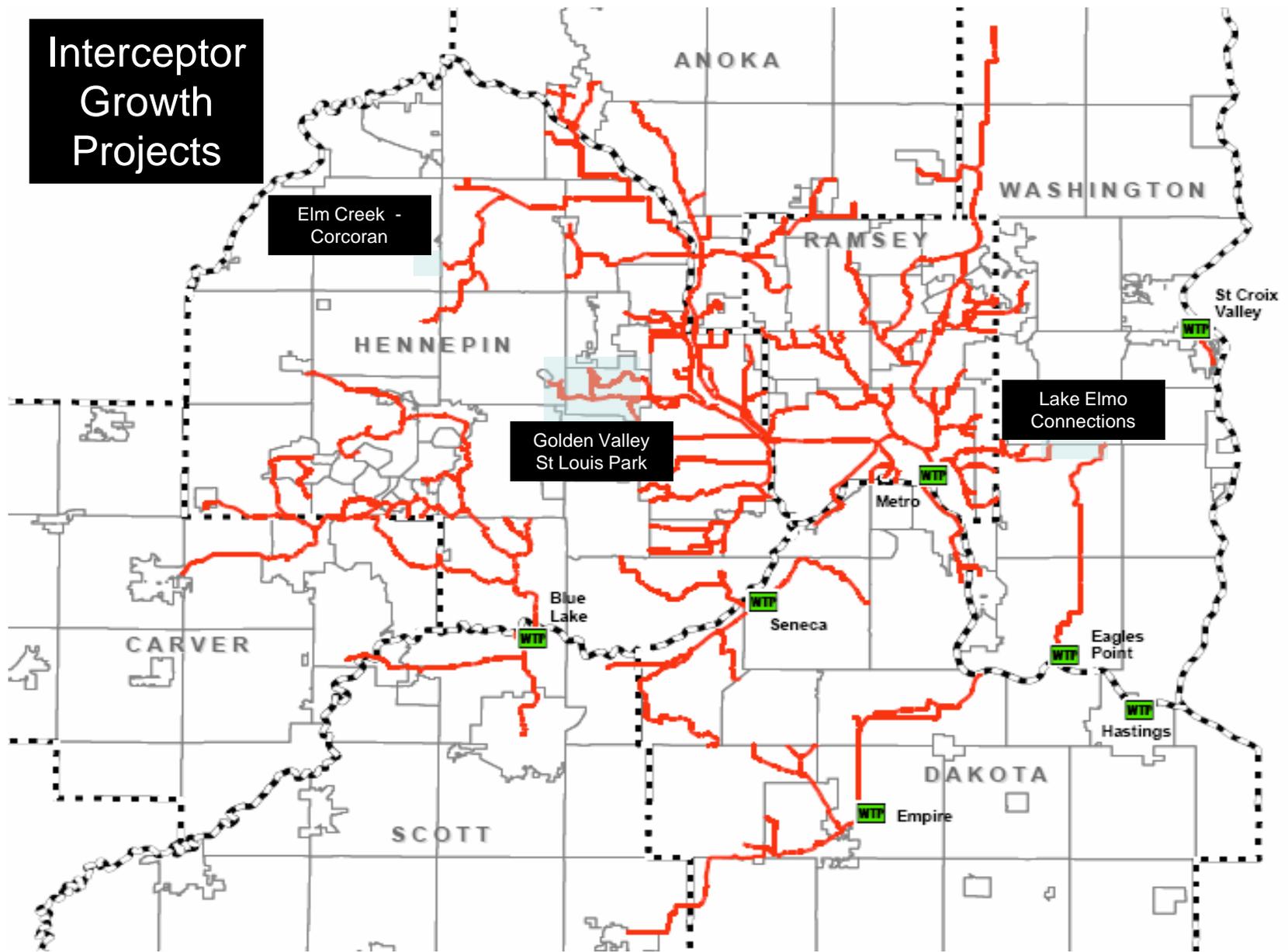


* Project #8076 initiated in 2012; Phase 1 Construction underway

** Project #8068, Design Funding and Authorization being requested

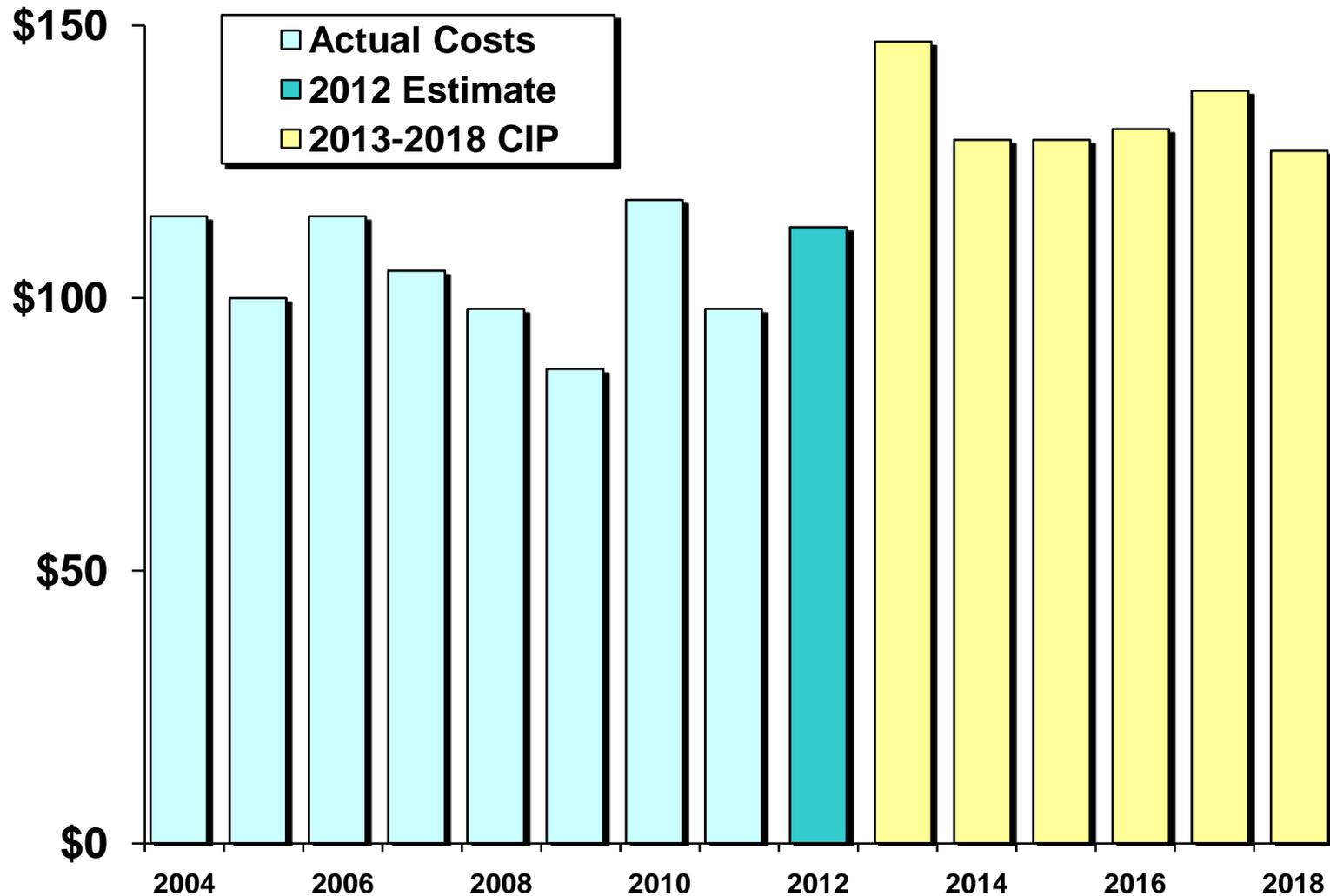
*** Project #8076 Phase 2 Design & Construction funding being requested

Interceptor Growth Projects



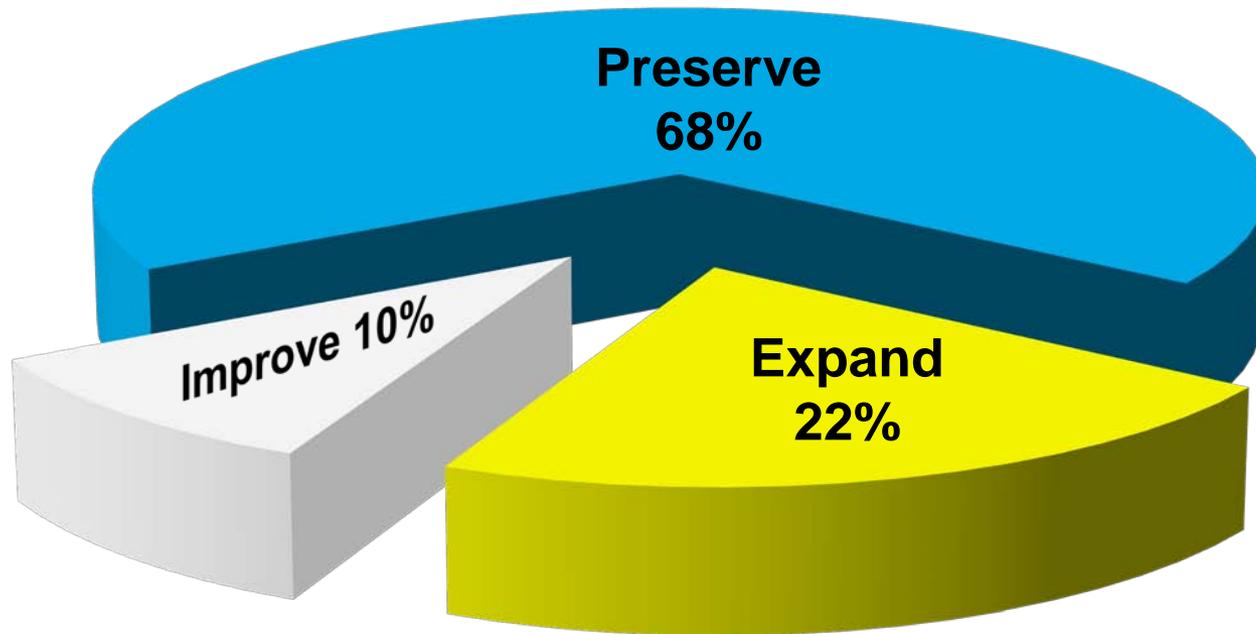
Capital Improvement Program (CIP)

Expenditures by Year (\$ millions)



Capital Improvement Program (CIP)

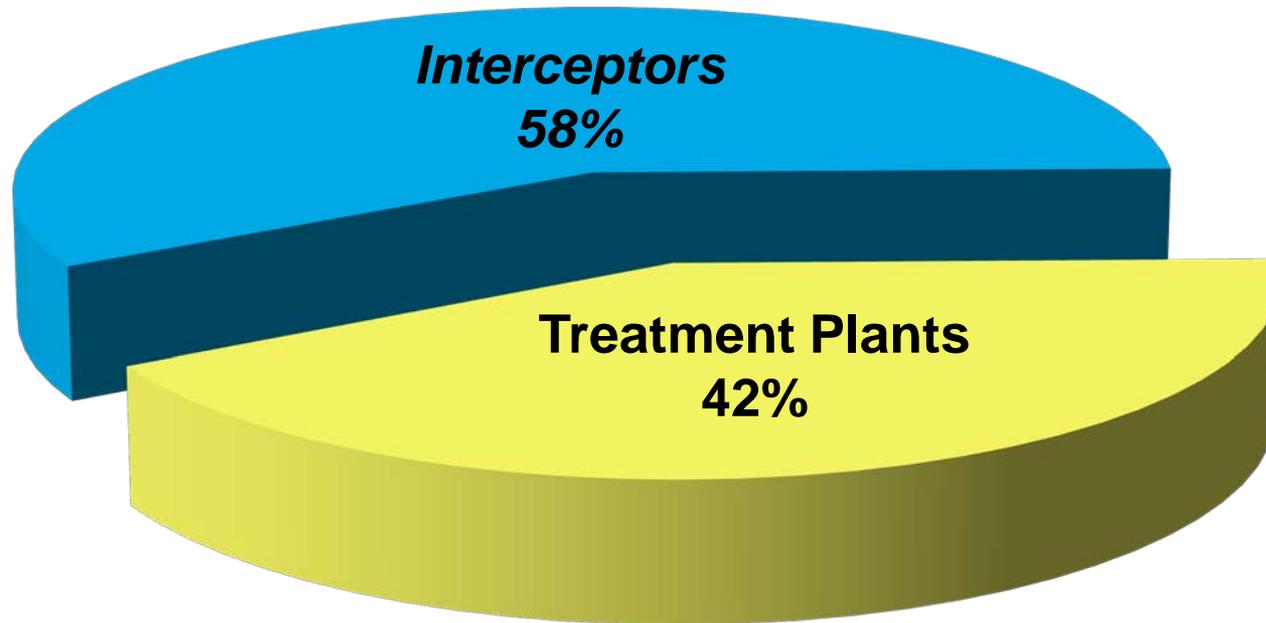
Cost Breakdown by Project Objective



Total 2013 - 2018 CIP
\$801 Million

Capital Improvement Program (CIP)

Uses by Category



Total 2013 - 2018 CIP
\$801 Million

PROPOSED 2013 AUTHORIZED CAPITAL PROGRAM

Authorized Capital Program Requests

- Six New Projects
- Adjustments to Existing Projects
- Authorization of the Design Phase for the Empire Plant Solids Project and Minneapolis Interceptor 1-MN-310/320 Diversion Project
- Deletion of Completed Projects

Summary of Proposed Changes

Current Authorizations	\$984,800,000
New Projects	48,500,000
Adjustments	122,700,000
Completed Projects	-168,000,000
Proposed 2013 Authorization	<u>\$988,000,000</u>

New Projects

- Preliminary Engineering

- Maple Plain LS/FM Rehabilitation \$500,000
- St Bonifacius LS/FM Rehabilitation 500,000
- Waconia LS/FM Rehabilitation 500,000

- Construction

- Brooklyn Park LS/FM Improvements \$14,000,000
- Burnsville Interceptor Rehabilitation 30,000,000
- Regional Plant Electrical Improvements 3,000,000

New Projects Total \$48,500,000

Summary of Adjustments

Empire Plant Solids Improvements	\$2,500,000
Metro Nutrient Removal	1,000,000
Blue Lake System Improvements	58,000,000
Chaska-Shakopee Interceptor Rehab.	3,000,000
Hopkins System Improvements	30,000,000
Interceptor WO-500 Rehabilitation	-3,000,000
Meter Improvements	3,000,000
Mpls. Interceptor 1-MN-310/320 Diversion	11,200,000
Mpls. Interceptor System Rehabilitation*	17,000,000

* Funding for Phase 2

Adjustments Total **\$122,700,000**

Deletion of Completed Projects

Seneca Disinfection & Phosphorus

Bloomington-Edina-Richfield Area Improvements

Chaska West Interceptor

Interceptor 1-MN-320 Reconnection & Rehabilitation

Maplewood Interceptor Rehabilitation

Mpls. Interceptor 1-MN-303

Northeast Interceptor Improvements

Septage Management

South St. Paul LS/FM Improvements

St. Bonifacius Interceptor Rehabilitation

Completed Projects Total - \$168,000,000

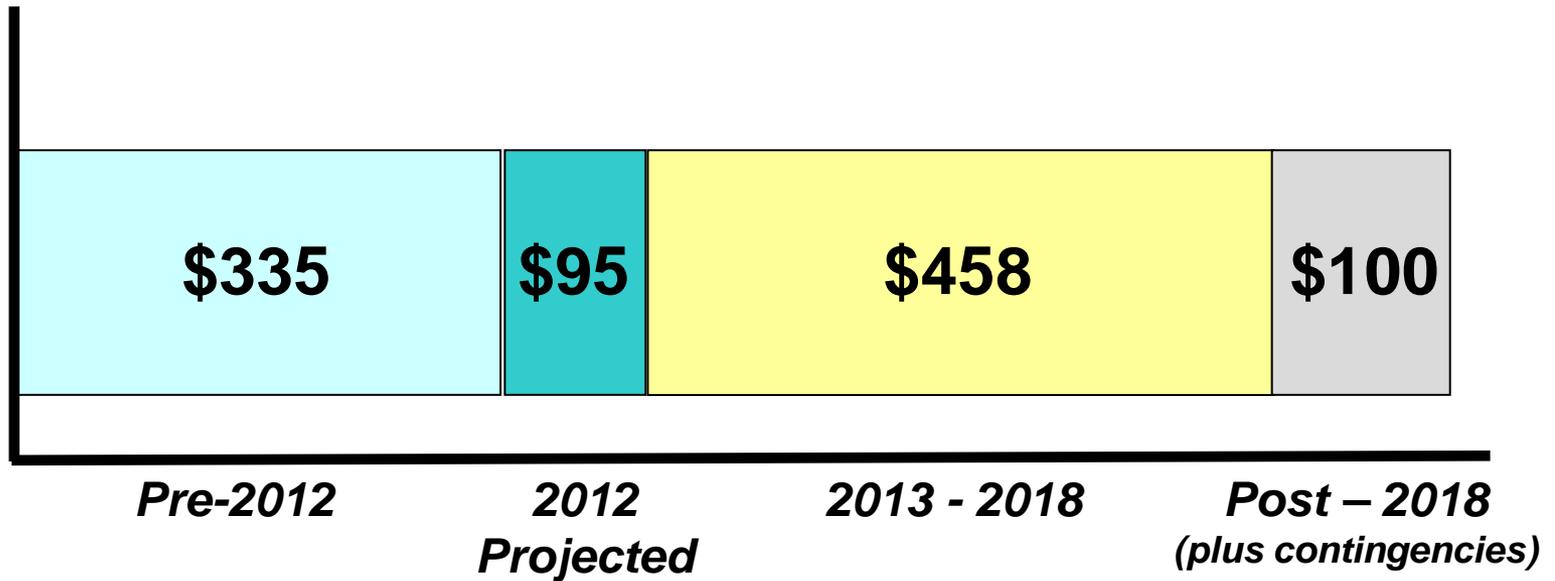
Construction Schedule: Plants

Project	2013	2014	2015	2016	2017	2018
Metro Rehabilitation						
Empire Solids						
Metro Solids						
Hastings Plant						
Blue Lake Expansion						
Seneca Solids						

Construction Schedule: Interceptors

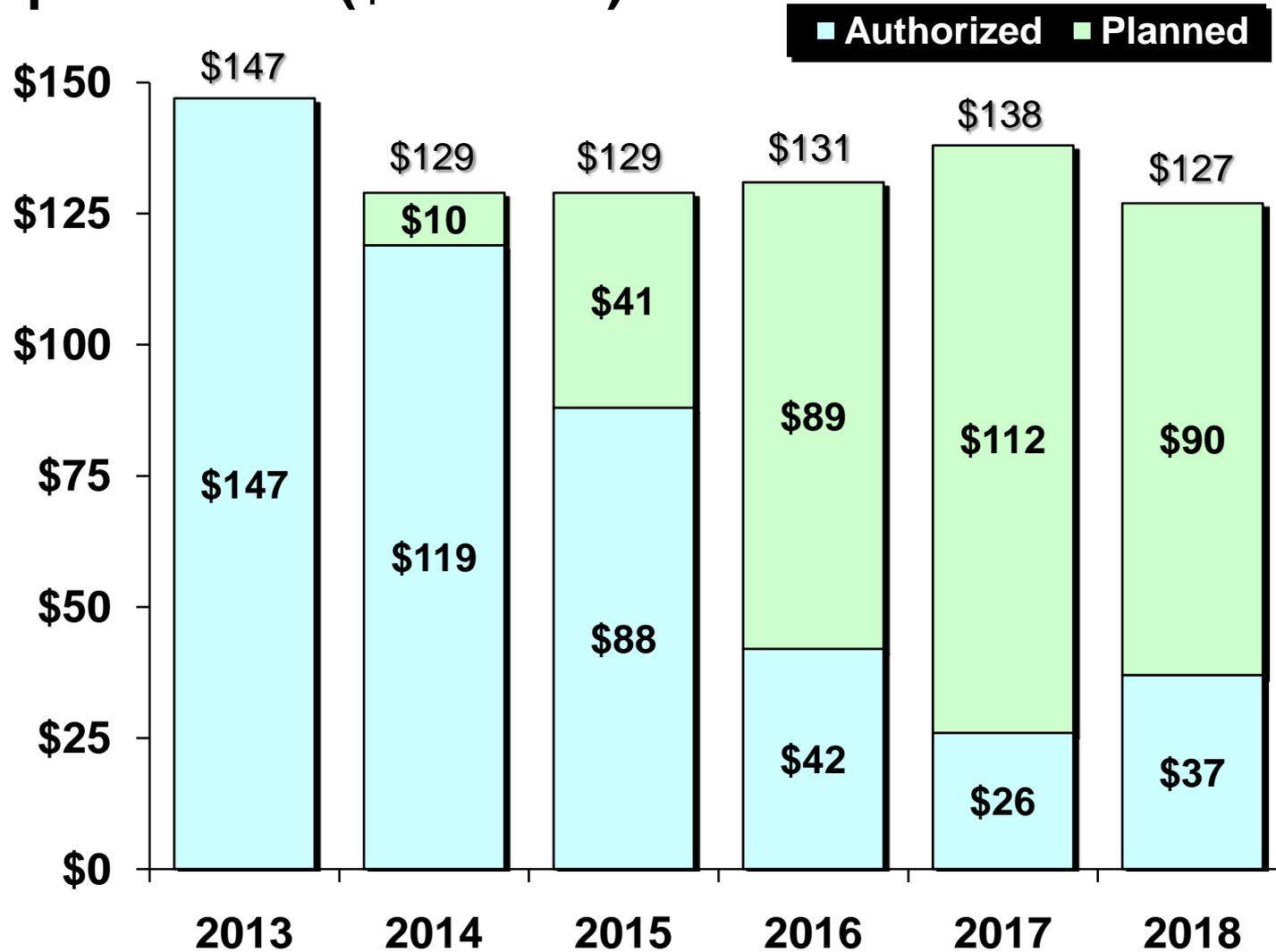
Project	2013	2014	2015	2016	2017	2018
Blue Lake , Hopkins and Mpls. Interceptor Systems						
Golden Valley						
Brooklyn Park LS/FM						
Burnsville						
Maple Plain, St. Bonifacius, and Waconia Interceptors						
Coon Rapids-Fridley and Eden Prairie-Minnetonka						
Mpls. Diversion Tunnel						

Proposed Authorized Capital Program Expenditures (\$millions)

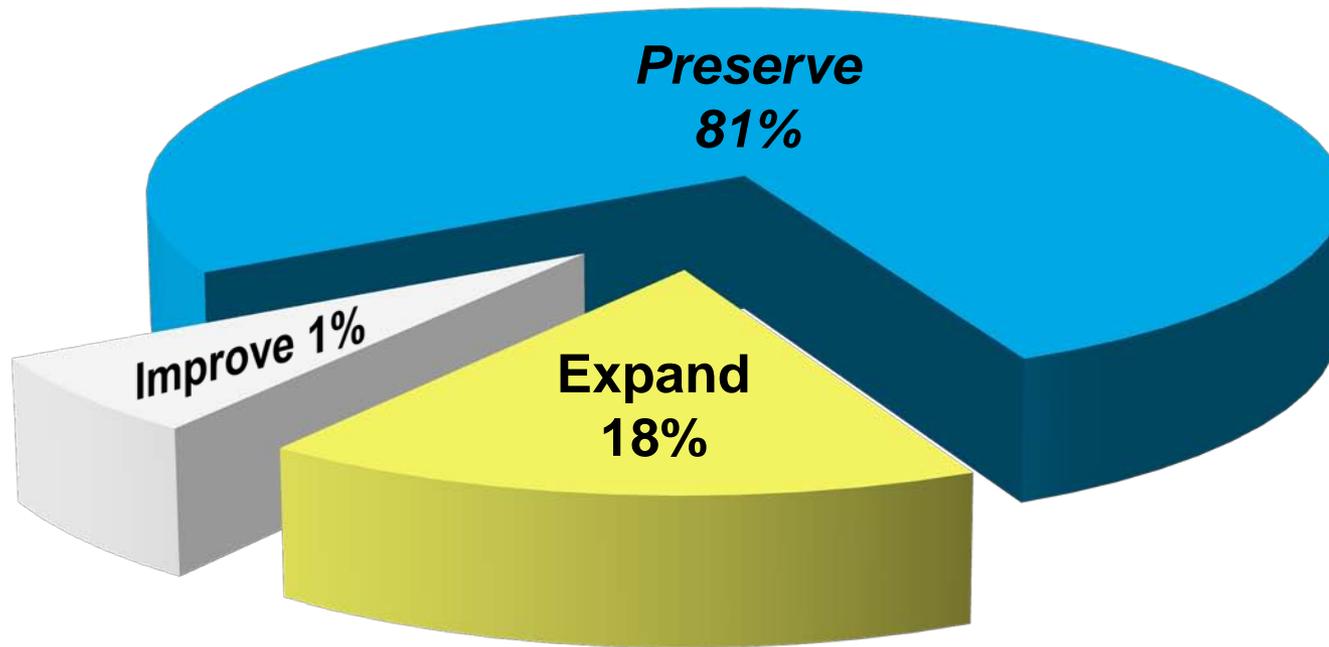


Capital Improvement Program

Expenditures (\$millions)



Proposed 2013 Capital Budget



**Total 2013 Capital Budget
\$147 Million**

Summary

Capital Improvement Program

\$801 Million

Authorized Capital Program

\$988 Million

Capital Budget

\$147 Million

Capital Improvement Program

Proposed 2013 - 2018 \$801 Million

Approved 2012 – 2017 730 Million

Difference \$71 Million

Additions:

Metro Plant Rehabilitation \$18 M

Regional Plant Electrical 3 M

Burnsville Interceptor Rehabilitation 26 M

Eden Prairie-Minnetonka Interceptor Rehab. 12 M

Coon Rapids-Fridley Interceptor Rehab. 12 M

Total \$71 M

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